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Hawkins
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Parviz Soroushian

For: Pseudoelastic Springs with Concentrated Deformations and Applications
Thereof

Serial No.: 09/733,690

Filed: 12/11/2000

Art Unit: 2834

Examiner: Judson H. Jones

Atty. Docket: The application is pursued by the applicant (Dr. Parviz Soroushian) 2000

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I hereby certify that this correspondence is on the date shown below, being

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Date

PARVIZ SOUROUSHIAN

Name of Person Certifying

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir;


This paper is responsive to your paper mailed to us on 8/23/2002. I already provided a response to your paper which, due to our error, had an incomplete list of claims. In light of your objection that our key Claims can be anticipated by Kleshinski, I have emphasized a key feature of our approach that is distinct from that of Kleshinski into the

primary Claim. While Kleshinski tries to concentrate deformations at particular locations by reducing the cross section at such locations, our approach braces (stiffens) the shape memory element outside such locations using other materials. Hence, our approach uses shape memory alloys with uniform cross section (unlike Kleshinski which uses shape memory elements with locally reduced cross sections); our approach also uses not just the shape memory element but the shape memory element with non-shape-memory bracing outside locations where deformations would concentrate. This distinguishing feature of our invention (non-shape-memory bracing outside locations of deformation concentration) would make our Claims concerning application to brush holders distinct from Japanese reference 62-296746 because neither this reference nor Kleshinski brace the shape memory element to introduce localized deformations in order to enhance constant-force behavior. The Claim which introduces heat treatment in free condition has also been removed in light of your objections.

✓ Following your recommendation, ✓ I would like to cancel all previous claims, and ✓ introduce Claims 27 through 34 presented in the following pages.

Thank you for your consideration.

Sincerely yours,



Parviz Soroushian

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